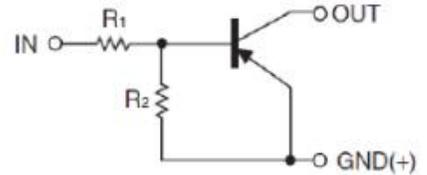


**SOT-23 Digital Transistor 数字晶体管**

■ **Features 特点**

1.IN 2.GND 3.OUT  
PNP With Bias Resistor Network  
带偏置电阻



■ **Absolute Maximum Ratings 最大额定值**

Characteristic 特性参数	Symbol 符号	Rat 额定值	Unit 单位
Supply Voltage 电源电压	$V_{CC}$	-50	V
Input Voltage 输入电压	$V_{IN}$	-10~+5	V
Output Current 输出电流	$I_o$	-100	mA
Power dissipation 耗散功率	$P_C(T_a=25^{\circ}C)$	200	mW
Thermal Resistance Junction-Ambient 热阻	$R_{\theta JA}$	625	$^{\circ}C/W$
Junction and Storage Temperature 结温和储藏温度	$T_J, T_{stg}$	-55to+150 $^{\circ}C$	

■ **Device Marking 产品打标**

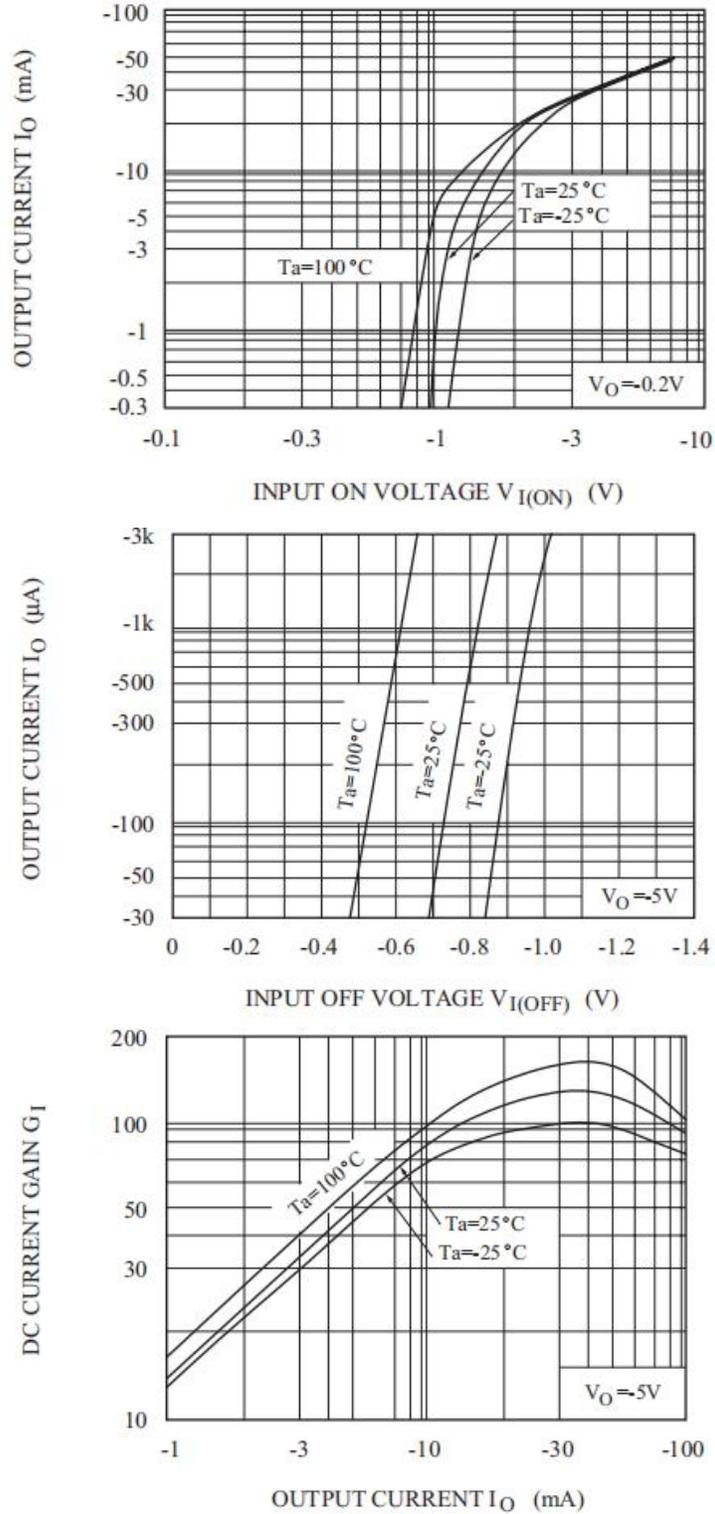
KRA116S=P2

■ Electrical Characteristics 电特性

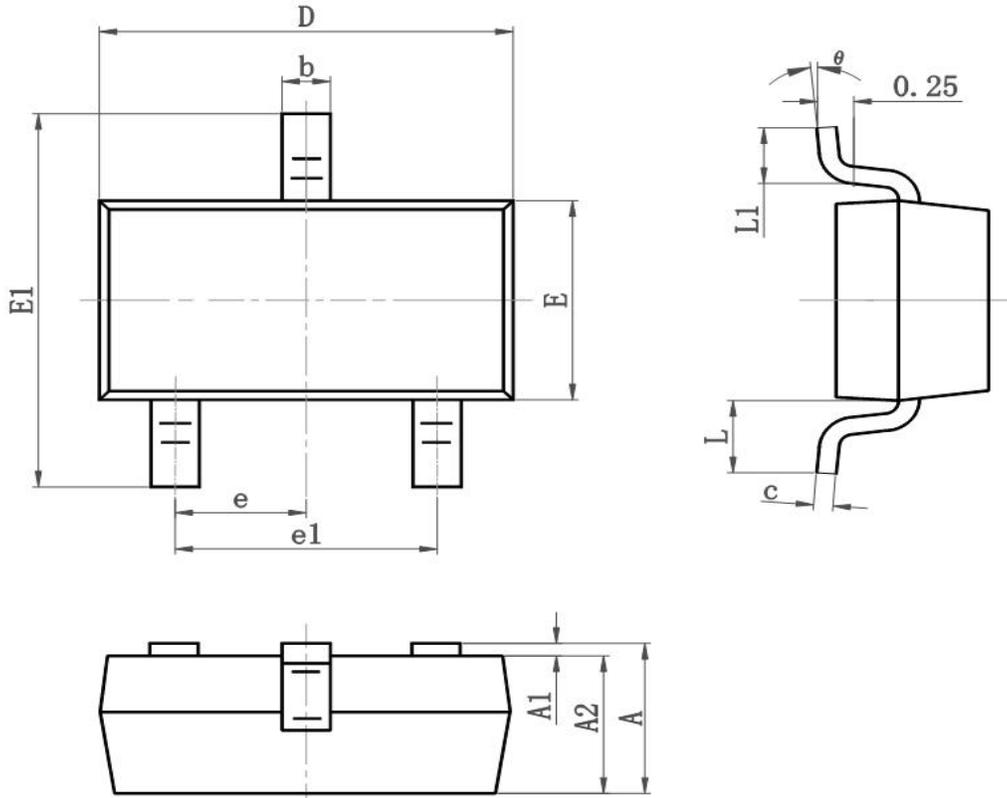
( $T_A=25^\circ\text{C}$  unless otherwise noted 如无特殊说明, 温度为  $25^\circ\text{C}$ )

Characteristic 特性参数	Symbol 符号	Min 最小值	Type 典型值	Max 最大值	Unit 单位
Input Voltage 输入电压 ( $V_{CC} = -5\text{V}$ , $I_O = -100\mu\text{A}$ )	$V_{I(\text{off})}$	-0.3	—	—	V
Input Voltage 输入电压 ( $V_O = -0.3\text{V}$ , $I_O = -20\text{mA}$ )	$V_{I(\text{on})}$	—	—	-3	V
Output Voltage 输出电压 ( $I_O/I_I = -10\text{mA}/-0.5\text{mA}$ )	$V_{O(\text{on})}$	—	—	-0.3	V
Input Current 输入电流 ( $V_I = -5\text{V}$ )	$I_I$	—	—	-7.2	mA
Output Current 输出电流 ( $V_{CC} = -50\text{V}$ , $V_I = 0$ )	$I_{O(\text{off})}$	—	—	-0.5	$\mu\text{A}$
DC Current Gain 直流电流增益 ( $V_O = -5\text{V}$ , $I_O = -5\text{mA}$ )	$G_I$	33	—	—	
Input Resistor 输入电阻	R1	0.7	1	1.3	$\text{K}\Omega$
Resistor Ratio 电阻比率	R2/R1	8	10	12	
Transition frequency 特征频率 ( $V_O = -10\text{V}$ , $I_O = -5\text{mA}$ )	$f_T$	—	250	—	MHz

■ Typical Characteristic Curve 典型特性曲线



■Dimension 外形封装尺寸



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.900	1.150	0.035	0.045
A1	0.000	0.100	0.000	0.004
A2	0.900	1.050	0.035	0.041
b	0.300	0.500	0.012	0.020
c	0.080	0.150	0.003	0.006
D	2.800	3.000	0.110	0.118
E	1.200	1.400	0.050	0.055
E1	2.250	2.550	0.089	0.100
e	0.900	1.00	0.035	0.039
e1	1.800	2.000	0.071	0.079
L	0.500	0.600	0.020	0.024
L1	0.300	0.500	0.012	0.020
θ	0°	8°	0°	8°